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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/054,957	01/25/2002	Theodore W. Houston	TI-25900.1	TI-25900.1 9230	
23494	7590 07/14/2005		EXAMI	EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			THOMAS, TONIAE M		
DALLAS, T	5474, M/S 3999 X 75265		ART UNIT PAPER NUMBER		
·			2822	2822	
			DATE MAILED: 07/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/054,957	HOUSTON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Toniae M. Thomas	2822				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 25 A	1) Responsive to communication(s) filed on <u>25 April 2005</u> .					
2a)⊠ This action is FINAL . 2b)□ This	s action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 10 and 25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 10 and 25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
 Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 25 January 2002 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 						
11) \square The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	,					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa	ate atent Application (PTO-152)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	ction Summary Pa	rt of Paper No./Mail Date 07112005				

DETAILED ACTION

1. This Office action is responsive to the amendment filed on 25 April 2005. Currently, claims 10 and 25 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 10 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Jones et al. (US 4,212,683).

The Jones et al. patent (Jones) discloses a transistor (see figs. 1-6 and accompanying text). The transistor comprises: a semiconductor substrate 11 having first and second spaced apart source/drain regions 12 and 13 therein (fig. 2 and col. 4, lines 34-37); and a channel region between the source/drain regions in the substrate having a relatively low V_T central region 27 between the source/drain regions and relatively high controlling V_T regions 28 and 29 adjacent to the source/drain regions (fig. 6; col. 4, lines 62-64; col. 5, lines 28-37; and col. 6, lines 3-11), the channel region having an implanted negative V_T dopant intermediate the source/drain regions (fig. 6 and col. 4, lines 62-68) and having an implanted positive V_T dopant adjacent the source/drain regions

Application/Control Number: 10/054,957

Art Unit: 2822

that is opposite the dopant in the central or intermediate region 27 (fig. 6 and col. 5, lines 28-37); where the controlling V_T is defined as that region which is the least conducting region.¹

Page 3

The first source/drain region 12 is a source region and the second source/drain region 13 is a drain region (col. 4, lines 34-37).

Response to Arguments

3. Applicant's arguments filed 25 April 2005 have been fully considered but they are not persuasive. Applicant argues that the Jones et al. (US 4,212,683) reference does not teach that the relatively high V_T regions 28, 29 adjacent source/drain regions 12, 13 are controlling V_T regions. However, "where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established (In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977))" (see MPEP § 2112.01).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the

¹ The term "opposite' as it is used in the claim is interpreted to mean "opposite conductivity

Page 4

advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toniae M. Thomas whose telephone number is (571) 272-1846. The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TMT

11 July 2005

Mary Wilczewski Primary Examiner